

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1 (Original). A closed single-use system for mixing, storing and homogenizing liquids, comprising an assembly constituted by a rigid container (1) fitted with a non-invasive pump (4), said container (1) enclosing a generally parallelepipedic single-use bag (2), characterized in that the lower face of the bag includes an orifice for the liquid to discharge to the outside of the bag, the upper face includes an orifice for the liquid to return through which said liquid returns to the inside of the bag, said orifices are connected in fixed manner by means of an external mixing duct (3) which is inserted into the pump (4) which, during operation, allows the closed-circuit circulation of the liquid taken from the bottom of said bag (2), the pump (4) being open so that the mixing duct (3) can be inserted into it and extracted from it.

2 (Original). A system according to claim 1, characterized in that the bottom (7) of the container (1) is

fitted with an elongated slit (8) allowing the insertion and the passage of the mixing duct (3).

3 (Currently Amended). A system according to claim 1 ~~or 2~~, characterized in that it includes a device (20, 27) which can be shifted parallel to the bottom of the container in order to partially close the slit (8).

4 (Currently Amended). A system according to ~~one of~~ ~~claims~~ claim 1 ~~to 3~~, characterized in that the container (1) includes one or two side doors (5, 6) in order to allow the installation of the bag (2).

5 (Currently Amended). A system according to ~~one of~~ ~~claims~~ claim 1 ~~to 4~~, characterized in that the container (1) is fitted with a bottom wall (7) which can be shifted horizontally, fitted with one or more elongated slits.

6 (Currently Amended). A system according to ~~one of~~ ~~claims~~ claim 4 ~~and 5~~, characterized in that the flaps of the side doors (5, 6) comprise a vertical U-section, the openings facing each other, into which a profiled plate (21) is slid and adjusted in order to keep the flaps of the side doors (5, 6) held in the closed position.

7 (Original). A system according to claim 6, characterized in that the central part of the profiled and adjusted plate (24) is preferably coplanar with the internal surface of the two side doors (5, 6).

8 (Currently Amended). A system according to ~~one of~~  
~~claims~~ claim 4 to 7, characterized in that the flap of a side  
door (5, 6) includes a gate (23) fitted with fastenings  
cooperating with systems provided on the other side door (5,  
6) in order to keep said flaps in the closed position.

9 (Original). A system according to claim 8,  
characterized in that the central part (22) of this gate (23)  
is coplanar with the internal surface of the two side doors  
(5, 6) of the container (1).

10 (Currently Amended). A system according to ~~one of~~  
~~claims~~ claim 4 to 9, characterized in that the flaps of two  
side doors (5, 6) comprise a U-section, the openings being  
turned away from each other, into which a profiled plate is  
slid and adjusted (24) comprising two U-bends, the openings  
facing each other, in order to keep the flaps of the side  
doors (5, 6) in the closed position.

11 (Original). A system according to claim 10,  
characterized in that the central part (22) of the profiled and  
adjusted plate (24) is coplanar with the two side doors (5, 6)  
and forms a channel in which the mixing duct (3) can be  
installed in order to protect it.

12 (Currently Amended). A system according to ~~one of~~  
~~claims~~ claim 4 to 11, characterized in that a protection of

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the mixing duct (3) is integrated in a door (6) of the container and includes a gate flap (25).

13 (Original). A method for mixing compounds, characterized in that, in a rigid container (1) fitted with a non-invasive pump (4), a single-use bag (2) is installed, the lower face and the upper face of which are connected in fixed manner by means of a mixing duct (3), the duct (3) is inserted into the non-invasive pump (4), and said pump is actuated in order to produce a closed-circuit circulation of the liquid or liquids introduced into the container (1) in order to carry out the mixing.

14 (Original). A method according to claim 13, characterized in that the pump (4) causes the mixture to circulate with a flow rate of 6 to 1500 litres per minute.